

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| S1    | 26   | ((TEDJAR ADJ1 FAROUK) OR (FOUDRAZ ADJ1 JEAN-CLAUDE)).INV.                                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/05/11 08:25 |
| S2    | 509  | 429/49.ccls.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/05/11 08:25 |
| S3    | 1    | S1 AND S2   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/05/11 08:25 |
| S4    | 356  | 423/179.ccls.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/05/11 08:43 |
| S5    | 1    | S1 AND S4   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/05/11 08:44 |
| S6    | 1    | S2 AND S4   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/05/11 08:44 |
| S7    | 864  | S2 OR S4  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/05/11 08:44 |
| S8    | 3    | S7 AND ((lithium NEAR3 anode) SAME ((cobalt OR nickel OR manganese OR iron) NEAR2 cathode)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/05/11 08:44 |

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| S9  | 0  | S8 AND hydrolysis  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:45 |
| S10 | 0  | S8 AND crushing  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:45 |
| S11 | 3  | S8 AND (electrolyte WITH salt)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:46 |
| S12 | 3  | S8 AND salt  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:48 |
| S13 | 2  | S12 AND (argon WITH ("CO. <sub>2</sub> " OR<br>"carbon dioxide"))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:49 |
| S14 | 77 | S7 AND ((lithium OR Li) SAME (cobalt<br>OR nickel OR manganese OR iron))   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:51 |
| S15 | 8  | S7 AND ((lithium OR Li) SAME (cobalt<br>OR nickel OR manganese OR iron)) AND<br>hydrolysis                                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:51 |
| S16 | 2  | S7 AND ((lithium OR Li) SAME (cobalt<br>OR nickel OR manganese OR iron)) AND<br>hydrolysis AND crushing                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:51 |
| S17 | 0  | S7 AND ((lithium OR Li) SAME (cobalt<br>OR nickel OR manganese OR iron)) AND<br>hydrolysis AND crushing AND<br>densification | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:51 |
| S18 | 6  | ("6511639" OR "5882811" OR<br>"5888463").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/11<br>08:54 |

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| S19 | 1702 | 241/23.ccls. OR 423/179.5.ccls OR 429/49.ccls.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/11 09:03 |
| S20 | 0    | S19 AND ((lithium OR Li) SAME (cobalt OR nickel OR manganese OR iron)) AND hydrolysis AND crushing AND densification  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/11 09:03 |
| S21 | 2    | S19 AND ((lithium OR Li) SAME (cobalt OR nickel OR manganese OR iron)) AND hydrolysis AND crushing  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/11 09:03 |
| S22 | 509  | 429/49.ccls.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:23 |
| S23 | 357  | 423/179.ccls.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:23 |
| S24 | 4    | (S22 OR S23) AND (dry WITH (crushing OR crushed OR communiton))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:23 |
| S25 | 2    | (S22 OR S23) AND ((dry WITH (crushing OR crushed OR communiton)) SAME (inert))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:23 |
| S26 | 10   | (S22 OR S23) AND (((crushing OR crushed OR communiton)) SAME (argon OR nitrogen OR inert)) NOT S25  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:31 |
| S27 | 1    | (S22 OR S23) AND (((crushing OR crushed OR communiton)) SAME (argon OR nitrogen OR inert)) AND ((separated OR separation) NEAR4 (magnet OR magnetic)) NOT S25 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:33 |
| S28 | 13   | battery AND (((crushing OR crushed OR communiton)) SAME (argon OR nitrogen OR inert)) AND ((separated OR separation) NEAR4 (magnet OR magnetic)) NOT S25      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:37 |

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| S29 | 13 | (US-20070179332-\$ or US-20050097179-\$ or US-20030121366-\$ or US-20020124691-\$).did. or (US-4849021-\$ or US-5575907-\$ or US-4042177-\$ or US-7407122-\$ or US-6524737-\$ or US-6743746-\$).did. or (US-3761245-\$).did. or (FR-2868603-\$ or BE-859366-\$).did. | US-PGPUB; USPAT; USOCR; DERWENT                          | OR | ON | 2009/05/12 14:41 |
| S30 | 13 | S29 AND ((crushing OR crushed OR communiton)) SAME (argon OR nitrogen OR inert) AND ((separated OR separation) NEAR4 (magnet OR magnetic)) NOT S25   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:41 |
| S31 | 12 | S29 AND ((crushing OR crushed OR communiton)) SAME (argon OR nitrogen OR inert) AND ((separated OR separation) NEAR4 (magnet OR magnetic)) NOT S25 NOT "2868603".PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 14:42 |
| S32 | 2  | "6511639".PN.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 15:14 |
| S33 | 4  | "5882811".PN. OR "5888463".PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 15:15 |
| S34 | 2  | "2003180604".PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 15:17 |
| S35 | 2  | "20030180604".PN.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/12 15:17 |
| S36 | 1  | (lithiophosphate SAME (soda AND "phosphoric acid"))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 08:49 |
| S37 | 5  | ("lithium phosphate" SAME (soda AND "phosphoric acid"))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 08:49 |

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| S38 | 17      | ((lithiophosphate OR "lithium phosphate") AND ((soda OR flyash) WITH "phosphoric acid"))                        | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 08:50 |
| S39 | 1       | ((lithiophosphate OR "lithium phosphate") SAME ((soda OR flyash) WITH "phosphoric acid"))                       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 08:50 |
| S40 | 2       | ((lithiophosphate OR "lithium phosphate") SAME ((soda OR flyash OR ash OR caustic) WITH "phosphoric acid"))     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 08:50 |
| S41 | 43      | (("alkali metal phosphate") SAME ((soda OR flyash OR ash OR caustic) WITH "phosphoric acid"))                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 08:51 |
| S42 | 25      | (("alkali metal phosphate") SAME ((soda) WITH "phosphoric acid"))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 08:51 |
| S43 | 0       | (("alkali metal phosphate") SAME ((soda) WITH "phosphoric acid")) AND battery                                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 08:52 |
| S44 | 52      | "429".clas. AND (lithium NEAR3 anode WITH nickel NEAR3 cathode SAME electrolyte)                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:03 |
| S45 | 2       | "429".clas. AND (lithium NEAR3 anode WITH nickel NEAR3 cathode SAME electrolyte) AND recycle                    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:03 |
| S46 | 1240808 | crushing WTIH "room temperature"  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:16 |
| S47 | 1       | "dry crushing" WITH "room temperature" AND "429".clas. AND (battery WITH (recycle OR recycling OR remediation)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:17 |

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| S48 | 1  | "dry crushing" WITH "room temperature" AND "429".clas.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:17 |
| S49 | 9  | crushing WITH "room temperature" AND "429".clas.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:17 |
| S50 | 1  | crushing WITH "room temperature" AND "429".clas. AND (recycle OR recycling OR remediation)                                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:18 |
| S51 | 6  | ((crushing WITH (temperature OR ".degC")) AND "429".clas. AND (recycle OR recycling OR remediation))                           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:18 |
| S52 | 6  | ((crushing OR commution) WITH ((temperature OR ".degC")) AND "429".clas. AND (recycle OR recycling OR remediation))            | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:20 |
| S53 | 20 | ((crushing OR commution OR grinding) WITH (temperature OR ".degC")) AND "429".clas. AND (recycle OR recycling OR remediation)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:21 |
| S54 | 15 | ((grinding) WITH (temperature OR ".degC")) AND "429".clas. AND (recycle OR recycling OR remediation))                          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/13 09:21 |
| S55 | 2  | "6329096".PN.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 09:34 |
| S56 | 0  | 429/49.ccls. AND "lithium ion battery" WITH ((cobalt OR nickel) NEAR2 cathode)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 11:07 |
| S57 | 22 | "429".clas. AND "lithium ion battery" WITH ((cobalt OR nickel) NEAR2 cathode)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 11:07 |

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| S58 | 1   | 429/49.ccls. AND ("lithium ion battery" AND (magnetic NEAR2 separation) SAME (sieve))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 11:31 |
| S59 | 1   | 429/49.ccls. AND (lithiophosphate WITH (soda AND "phosphoric acid"))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 12:58 |
| S60 | 0   | 429/49.ccls. AND ((lithium NEAR3 phosphate) WITH (soda AND "phosphoric acid"))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 12:58 |
| S61 | 0   | 429/49.ccls. AND ((lithium NEAR3 phosphate) SAME (soda AND "phosphoric acid"))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 12:58 |
| S62 | 1   | 429/49.ccls. AND (((lithium NEAR3 phosphate) OR LiP OR "LiPF.sub.6" OR lithiophosphate) SAME (soda AND "phosphoric acid"))                       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 12:59 |
| S63 | 0   | 429/49.ccls. AND (((lithium NEAR3 phosphate) OR LiP OR "LiPF.sub.6" OR lithiophosphate) SAME (soda AND "phosphoric acid")) NOT "20070196725".PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/27 12:59 |
| S64 | 510 | 429/49.ccls.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:17 |
| S65 | 0   | S64 AND (electrolysis WITH antimony \$1lead AND stainless)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:17 |
| S66 | 1   | S64 AND (electrolysis SAME (antimony \$1lead OR Sb\$1Pb) AND stainless)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:17 |
| S67 | 510 | 429/49.ccls.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:18 |

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| S68 | 1  | S67 AND (electrolysis AND (antimony \$1lead OR Sb\$1Pb) AND stainless)                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:18 |
| S69 | 13 | S67 AND (LiCl OR "lithium chloride")   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:19 |
| S70 | 9  | S67 AND (LiCl OR "lithium chloride" AND hexafluorophosphate)                               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:20 |
| S71 | 1  | S67 AND ((LiCl OR "lithium chloride") AND hexafluorophosphate)                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:20 |
| S72 | 2  | S67 AND ((LiCl OR "lithium chloride") AND phosphate)                                       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:20 |
| S73 | 3  | S67 AND (sieving AND "magnetic separation")  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:24 |
| S74 | 44 | S67 AND electrolysis   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:29 |
| S75 | 1  | S67 AND (2N NEAR2 ((sulfuric OR sulphuric) ADJ1 acid))                                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:31 |
| S76 | 3  | S67 AND (cathode NEAR2 ((sulfuric OR sulphuric) ADJ1 acid))                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:31 |
| S77 | 10 | S67 AND ((cobalt OR nickel OR manganese OR iron) WITH ((sulfuric OR sulphuric) ADJ1 acid)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:31 |

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| S78 | 1  | S67 AND ((cobalt OR nickel OR manganese OR iron) WITH ((sulfuric OR sulphuric) ADJ1 acid)) AND lithium\$1ion                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:34 |
| S79 | 1  | S67 AND ((cobalt OR nickel OR manganese OR iron) WITH ((sulfuric OR sulphuric) ADJ1 acid)) AND lithium NEAR2 battery                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:34 |
| S80 | 1  | S67 AND ((cobalt OR nickel OR manganese OR iron) WITH ((sulfuric OR sulphuric) ADJ1 acid)) AND ((Li OR Lithium) NEAR2 battery)           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:34 |
| S81 | 1  | S67 AND ((cobalt OR nickel OR manganese OR iron) WITH ((sulfuric OR sulphuric) ADJ1 acid)) AND ((Li OR Lithium) NEAR2 (cell OR battery)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:34 |
| S82 | 1  | S67 AND ((cobalt OR nickel OR manganese OR iron) WITH ((sulfuric OR sulphuric) ADJ1 acid)) AND ((Li OR Lithium) WITH (cell OR battery))  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/29 09:34 |
| S83 | 38 | "LiFePO.sub.4" SAME ((2N OR 2M OR "2 normal" OR "2 molar") NEAR2 ((sulfuric OR sulphuric) ADJ1 acid) OR "H.sub.2S")                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/09 13:15 |
| S84 | 0  | "LiFePO.sub.4" SAME (((2N OR 2M OR "2 normal" OR "2 molar") NEAR2 (((sulfuric OR sulphuric) ADJ1 acid) OR "H.sub.2S"))))                 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/09 13:15 |
| S85 | 44 | "LiFePO.sub.4" SAME (((((sulfuric OR sulphuric) ADJ1 acid) OR "H.sub.2S"))))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/09 13:16 |
| S86 | 0  | "LiFePO.sub.4" SAME (((((sulfuric OR sulphuric) ADJ1 acid) OR "H.sub.2S")) AND "hydrogenated peroxide")                                  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/09 13:16 |
| S87 | 1  | "LiFePO.sub.4" SAME (((((sulfuric OR sulphuric) ADJ1 acid) OR "H.sub.2S")) AND "hydrogen peroxide")                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/09 13:17 |

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| S88 | 0 | "LiFePO <sub>4</sub> .sub.4" SAME (((sulfuric OR sulphuric) ADJ1 acid) OR "H.sub.2S") AND "H.sub.2O.sub.2")   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/09 13:17 |
| S89 | 2 | "20040033360".PN.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 13:26 |
| S90 | 6 | "LiFePO <sub>4</sub> .sub.4" SAME (((sulfuric OR sulphuric) NEAR1 acid) OR "H.sub.2SO <sub>4</sub> .sub.4")   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 13:27 |
| S91 | 0 | "LiFePO <sub>4</sub> .sub.4" SAME (((sulfuric OR sulphuric) NEAR1 acid) OR "H.sub.2SO <sub>4</sub> .sub.4") SAME (dissolving OR separating)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 13:29 |
| S92 | 0 | ("LiFePO <sub>4</sub> .sub.4" OR "LiFePO <sub>4</sub> -based") SAME (((sulfuric OR sulphuric) NEAR1 acid) OR "H.sub.2SO <sub>4</sub> .sub.4") SAME (dissolving OR separating)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 13:30 |
| S93 | 0 | ("LiFePO <sub>4</sub> .sub.4" OR "LiFePO <sub>4</sub> -based") SAME (((sulfuric OR sulphuric) NEAR1 acid) OR "H.sub.2SO <sub>4</sub> .sub.4") SAME (dissolving OR separating OR separate OR dissolve OR remove)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 13:30 |
| S94 | 2 | ("LiFePO <sub>4</sub> .sub.4" OR "LiFePO <sub>4</sub> -based" OR "LiFePO <sub>4</sub> " OR "LiFePO <sub>4</sub> -based") SAME (((sulfuric OR sulphuric) NEAR1 acid) OR "H.sub.2SO <sub>4</sub> .sub.4") SAME (dissolving OR separating OR separate OR dissolve OR remove) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 13:30 |
| S95 | 1 | battery AND lithiophosphate SAME (soda AND phosphoric)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:24 |
| S96 | 0 | battery AND (lithium NEAR2 hexafluoride) SAME (soda AND phosphoric)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:24 |
| S97 | 0 | battery AND (lithium NEAR2 hexafluoridephosphate) SAME (soda AND phosphoric)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:24 |

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| S98  | 0    | battery AND (lithium NEAR2 hexafluorophosphate) SAME (soda AND phosphoric)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:25 |
| S99  | 0    | ((lithium NEAR2 hexafluorophosphate) SAME (soda AND phosphoric)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:25 |
| S100 | 2651 | ((lithium NEAR2 hexafluorophosphate) OR lithiophosphate)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:25 |
| S101 | 1    | ((lithium NEAR2 hexafluorophosphate) OR lithiophosphate) SAME (soda AND phosphoric)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:25 |
| S102 | 1    | ((lithium NEAR2 hexafluorophosphate) OR lithiophosphate OR hexafluorophosphate) SAME (soda AND phosphoric)                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:26 |
| S103 | 458  | ((lithium NEAR2 hexafluorophosphate) OR lithiophosphate OR hexafluorophosphate) AND (soda AND phosphoric)                                       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:26 |
| S104 | 98   | ((lithium NEAR2 hexafluorophosphate) OR lithiophosphate OR hexafluorophosphate) AND (soda SAME phosphoric)                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:27 |
| S105 | 78   | ((lithium NEAR2 hexafluorophosphate) OR lithiophosphate OR hexafluorophosphate) AND (soda WITH phosphoric)                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:27 |
| S106 | 1    | ((lithium NEAR2 hexafluorophosphate) OR lithiophosphate OR hexafluorophosphate) AND (soda WITH phosphoric) AND battery                          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:27 |
| S107 | 2    | ((lithium NEAR2 hexafluorophosphate) OR lithiophosphate OR hexafluorophosphate) AND (("Na. sub.2CO.sub.3" OR soda) WITH phosphoric) AND battery | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:31 |

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| S108 | 119 | ("LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) SAME ((sulfuric OR sulphuric) NEAR2 acid)                               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:36 |
| S109 | 105 | ("LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH ((sulfuric OR sulphuric) NEAR2 acid)                               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:36 |
| S110 | 76  | ("LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH ((sulfuric OR sulphuric) NEAR2 acid) AND "429".clas.               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:36 |
| S111 | 8   | ("LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH ((sulfuric OR sulphuric) NEAR2 acid) AND "429".clas. AND recycling | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:37 |
| S112 | 4   | ("LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH ((sulfuric OR sulphuric) NEAR2 acid) SAME battery                  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:38 |
| S113 | 211 | ("LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl OR "lithium chloride")                                       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:39 |
| S114 | 510 | 429/49.ccls.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:40 |
| S115 | 357 | 423/179.ccls.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:40 |
| S116 | 0   | ("LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl OR "lithium chloride") AND (S114 OR S115)                    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:40 |

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| S117 | 1  | (""LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl OR "lithium chloride") AND 429/59.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:40 |
| S118 | 0  | (""LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl OR "lithium chloride") SAME anode       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:40 |
| S119 | 8  | (""LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl OR "lithium chloride") SAME anode       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:40 |
| S120 | 0  | (""LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl) SAME anode                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:41 |
| S121 | 2  | (""LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl) SAME anion                             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:42 |
| S122 | 2  | (""LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl OR "lithium chloride") WITH anion       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:42 |
| S123 | 0  | (""LiFePO.sub.4" OR "LiFePO.sub.4-based" OR "LiFePO4" OR "LiFePO4-based" OR "lithium hexafluorophosphate" OR hexafluorolithiumphosphate) WITH (LiCl OR "lithium chloride") WITH stabaliz\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:43 |
| S124 | 59 | (lithium WITH phosphate WITH iron) SAME ((sulphuric OR sulfuric) NEAR2 acid)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:43 |
| S125 | 6  | (lithium WITH phosphate WITH iron) SAME ((sulphuric OR sulfuric) NEAR2 acid) WITH "hydrogen peroxide"   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:44 |
| S126 | 0  | (lithium WITH phosphate WITH iron) SAME ((sulphuric OR sulfuric) NEAR2 acid) WITH "hydrogen peroxide" WITH separate   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:44 |

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| S127 | 0  | ((lithium WITH phosphate WITH iron) SAME ((sulphuric OR sulfuric) NEAR2 acid) WITH "hydrogen peroxide" WITH (divide OR remove))                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:44 |
| S128 | 0  | ((lithium WITH phosphate WITH iron) SAME ((sulphuric OR sulfuric) NEAR2 acid) WITH "hydrogen peroxide") SAME (divide OR remove OR removal OR separate OR separation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:44 |
| S129 | 6  | ((lithium WITH phosphate WITH iron) SAME ((sulphuric OR sulfuric) NEAR2 acid) WITH "hydrogen peroxide")  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:45 |
| S130 | 31 | cobalt AND ((trivalent NEAR2 cobalt NEAR2 hydroxide) OR "Co(OH).sub.2")  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:55 |
| S131 | 0  | ((cobalt NEAR2 anode) SAME ((trivalent NEAR2 cobalt NEAR2 hydroxide) OR "Co(OH).sub.2") SAME "sulfuric acid")  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:56 |
| S132 | 0  | ((cobalt NEAR2 anode) SAME ((trivalent NEAR2 cobalt NEAR2 hydroxide) OR "Co(OH).sub.2")  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:56 |
| S133 | 9  | cobalt SAME ((trivalent NEAR2 cobalt NEAR2 hydroxide) OR "Co(OH).sub.2") SAME acid   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:56 |
| S134 | 6  | cobalt SAME ((trivalent NEAR2 cobalt NEAR2 hydroxide) OR "Co(OH).sub.2") SAME "sulfuric acid"  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/13 11:56 |
| S135 | 0  | (lithiophosphate OR ("lithium phosphate")) SAME "soda AND phosphoric"  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 08:59 |
| S136 | 8  | (lithiophosphate OR (lithium NEAR2 phosphate)) SAME (soda AND phosphoric)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:00 |

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| S137 | 29  | (lithiophosphate OR (lithium NEAR2 phosphate)) SAME soda  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:02 |
| S139 | 681 | (lithiophosphate OR (lithium NEAR2 phosphate)) SAME "phosphoric acid"   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:04 |
| S140 | 58  | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate)) SAME "phosphoric acid"   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:04 |
| S141 | 63  | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate)) SAME ("H. sub.3PO.sub.4" OR "phosphoric acid")                                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:15 |
| S142 | 1   | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate)) SAME (( "H. sub.3PO.sub.4" OR "phosphoric acid") AND soda)                         | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:15 |
| S143 | 1   | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate) OR "LiFePO. sub.4") SAME (( "H. sub.3PO.sub.4" OR "phosphoric acid") AND soda)      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:16 |
| S144 | 91  | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate) OR "LiFePO. sub.4") SAME (( "H. sub.3PO.sub.4" OR "phosphoric acid"))               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:16 |
| S145 | 0   | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate) OR "LiFePO. sub.4") SAME (( "H. sub.3PO.sub.4" OR "phosphoric acid")) SAME recovery | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:20 |
| S146 | 0   | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate) OR "LiFePO. sub.4") SAME (( "H. sub.3PO.sub.4" OR "phosphoric acid")) SAME recycle  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:20 |
| S147 | 83  | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate) OR "LiFePO. sub.4") SAME (( "H. sub.3PO.sub.4" OR "phosphoric acid")) SAME lithium  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:20 |

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| S148 | 3   | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate) OR "LiFePO.<br>sub.4") SAME ((H.sub.3PO.sub.4" OR<br>"phosphoric acid")) SAME precipitate | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:22 |
| S149 | 10  | "429".clas. AND (lithiophosphate OR (lithium NEAR2 phosphate) OR "LiFePO.<br>sub.4") SAME (sulphuric OR sulfuric)                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:24 |
| S150 | 0   | "429".clas. AND (hexafluorophosphate)<br>SAME (LiCl SAME stabiliz\$5)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:32 |
| S151 | 0   | "429".clas. AND (hexafluorophosphate)<br>SAME ((LiCl OR (lithium NEAR2<br>chloride)) SAME stabiliz\$5)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:33 |
| S152 | 2   | "429".clas. AND (hexafluorophosphate)<br>SAME ((LiCl OR (lithium NEAR2<br>chloride)) SAME stabiliz\$5)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:33 |
| S153 | 0   | "429".clas. AND (phosphate NEAR4<br>anion) SAME ((LiCl OR (lithium NEAR2<br>chloride)) SAME stabiliz\$5)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:33 |
| S154 | 1   | "429".clas. AND (phosphate NEAR4 ion)<br>SAME ((LiCl OR (lithium NEAR2<br>chloride)) SAME stabiliz\$5)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:33 |
| S155 | 2   | (hexafluorophosphate) SAME ((LiCl OR<br>(lithium NEAR2 chloride)) SAME stabiliz<br>\$5)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:34 |
| S156 | 420 | (hexafluorophosphate) SAME ((LiCl OR<br>(lithium NEAR2 chloride)))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:34 |
| S157 | 2   | (hexafluorophosphate) SAME ((LiCl OR<br>(lithium NEAR2 chloride)) SAME stabiliz<br>\$5)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/27<br>09:35 |

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| S158 | 76 | (hexafluorophosphate) SAME ((LiCl OR (lithium NEAR2 chloride)) SAME aqueous)                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:36 |
| S159 | 42 | (hexafluorophosphate) SAME ((LiCl OR (lithium NEAR2 chloride)) WITH aqueous)                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:36 |
| S160 | 0  | (hexafluorophosphate WITH PF) SAME ((LiCl OR (lithium NEAR2 chloride)) WITH aqueous)           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:36 |
| S161 | 0  | (hexafluorophosphate WITH PF) SAME ((LiCl OR (lithium NEAR2 chloride)) WITH wet)               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:38 |
| S162 | 0  | (hexafluorophosphate) SAME ((LiCl OR (lithium NEAR2 chloride)) WITH wet)                       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:38 |
| S163 | 42 | (hexafluorophosphate) SAME ((LiCl OR (lithium NEAR2 chloride)) WITH aqueous)                   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:38 |
| S164 | 34 | (hexafluorophosphate) SAME ((LiCl OR (lithium NEAR2 chloride)) WITH aqueous NOT "non-aqueous") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:39 |
| S165 | 32 | (hexafluorophosphate) SAME ((LiCl OR (lithium NEAR1 chloride)) WITH aqueous NOT "non-aqueous") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:39 |
| S166 | 2  | (fluorophosphate) SAME ((LiCl OR (lithium NEAR1 chloride)) WITH aqueous NOT "non-aqueous")     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:40 |
| S167 | 59 | (sulfuric OR sulphuric) SAME (steel NEAR2 shot)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:43 |

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|------|-----|---|--|----|----|------------------|
| S168 | 28  | (sulfuric OR sulphuric) SAME (steel NEAR2 shot) SAME temperature  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:43 |
| S169 | 1   | (sulfuric OR sulphuric) SAME (steel NEAR2 shot) SAME temperature SAME lithium                                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:43 |
| S170 | 287 | (sulfuric OR sulphuric) SAME (shot OR steel) SAME temperature SAME lithium  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:44 |
| S171 | 14  | (sulfuric OR sulphuric) SAME (shot) SAME temperature SAME lithium   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:44 |
| S172 | 172 | cathode SAME ((sulfuric OR sulphuric) NEAR1 acid) SAME peroxide SAME temperature                                  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:45 |
| S173 | 29  | "429".clas. AND cathode SAME ((sulfuric OR sulphuric) NEAR1 acid) SAME peroxide SAME temperature                  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:46 |
| S174 | 13  | "429".clas. AND cathode SAME ((sulfuric OR sulphuric) NEAR1 acid) SAME peroxide SAME temperature AND lithium      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:46 |
| S175 | 6   | battery SAME cathode SAME ((sulfuric OR sulphuric) NEAR1 acid) SAME peroxide SAME temperature AND lithium         | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:47 |
| S176 | 0   | "LiFePO <sub>4</sub> .sub.4" SAME ((sulfuric OR sulphuric) NEAR1 acid) SAME peroxide SAME temperature AND lithium | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 09:47 |
| S177 | 2   | 429/49,59,179.ccls. AND (crushing SAME inert SAME (ambient OR "room temperature"))                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 12:58 |

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|------|----|--|--|----|----|------------------|
| S178 | 2  | 429/49,59,179.ccls. AND ((crushing OR hammer) SAME inert SAME (ambient OR "room temperature")) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 12:59 |
| S179 | 1  | 429/49,59,179.ccls. AND ("room temperature" SAME "magnetic separation")                        | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 13:00 |
| S180 | 10 | 429/49,59,179.ccls. AND (magnetic NEAR1 separation)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 13:01 |
| S181 | 3  | 429/49,59,179.ccls. AND (magnetic NEAR1 separation) SAME temperature                           | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 13:02 |
| S182 | 0  | 429/49,59,179.ccls. AND (magnetic NEAR1 separation) SAME ".deg"                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 13:03 |
| S183 | 2  | 429/49,59,179.ccls. AND (magnetic NEAR1 separation) AND "room temperature"                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 13:03 |
| S184 | 8  | 429/49,59,179.ccls. AND (magnetic NEAR1 separation) AND temperature                            | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 13:04 |
| S185 | 5  | "03021708"   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 13:34 |
| S186 | 5  | "2827710".pn.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 13:49 |
| S187 | 1  | 429/49,59,179.ccls. AND (cobalt WITH cathode SAME hypochlorite)                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 14:06 |

|      |       |   |  |    |    |                  |
|------|-------|---|--|----|----|------------------|
| S188 | 69008 | "429".clas. (cobalt WITH cathode SAME hypochlorite)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 14:07 |
| S189 | 68995 | "429".clas. ((cobalt WITH cathode) SAME hypochlorite) SAME pH SAME (trivalent NEAR2 cobalt NEAR2 hydroxide)     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 14:07 |
| S190 | 0     | "429".clas. AND ((cobalt WITH cathode) SAME hypochlorite) SAME pH SAME (trivalent NEAR2 cobalt NEAR2 hydroxide) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 14:07 |
| S191 | 3     | "429".clas. AND ((cobalt WITH cathode) SAME hypochlorite)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 14:07 |
| S192 | 234   | water WITH ((lithium NEAR1 phosphate) OR lithiophosphate)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 14:22 |
| S193 | 1     | 429/49,59,179.ccls. AND S192  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 14:22 |
| S194 | 21    | "429".clas. AND S192  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/27 14:22 |
| S195 | 516   | 429/49.ccls.  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:17 |
| S196 | 361   | 423/179.ccls.   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:17 |
| S197 | 3     | (S195 S196) AND ((density WITH sort) (densification))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:17 |

|      |    |   |  |    |    |                  |
|------|----|---|--|----|----|------------------|
| S198 | 0  | (S195 S196) AND ((density WITH sort) (densification) AND (magnetic NEAR2 separation))             | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:18 |
| S199 | 18 | (S195 S196) AND ((density WITH (order sort separate separation)) (densification))                 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:18 |
| S200 | 1  | (S195 S196) AND ((density WITH (order sort separate separation)) (densification)) SAME mesh       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:20 |
| S201 | 46 | "429".clas. AND ((density WITH (order sort separate separation)) (densification)) SAME mesh       | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:21 |
| S202 | 0  | "429".clas. AND ((density WITH (order sort separate separation)) AND (densification NEAR1 table)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:38 |
| S204 | 0  | "429".clas. AND (densification NEAR1 table)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:38 |
| S205 | 0  | "429".clas. AND (densimetric NEAR1 table)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:38 |
| S206 | 1  | "429".clas. AND (densimetric NEAR1 table)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/03 11:39 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query  | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|------|---|-------------|------------------|---------|------------------|
| L1    | 0    | (429/49,179.ccls. 241/23.ccls.) AND (((lithium NEAR3 phosphate) OR LiP OR "LiPF.sub.6" OR lithiophosphate) SAME (soda AND "phosphoric acid"))).clm. | USPAT; UPAD | OR               | ON      | 2010/07/08 10:25 |

7/8/2010 10:25:17 AM

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